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NOTICE OF ALLOWANCE AND FEE(S) DUE

22199

7590

03/23/2009

MITSUBISHI ELECTRIC RESEARCH LABORATORIES, INC. 201 BROADWAY 8TH FLOOR CAMBRIDGE. MA 02139

EXAMINER					
YUN, EUGENE					
ART UNIT	PAPER NUMBER				
2619					

DATE MAILED: 03/23/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	10/774,200	02/06/2004	Philip Orlik	MERL-1540	6995

TITLE OF INVENTION: COORDINATING COMMUNICATIONS IN A HETEROGENEOUS COMMUNICATIONS NETWORK USING DIFFERENT SIGNAL FORMATS

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 06/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, ad nerwise in Block	vance o	rders and notification a) specifying a new co	of m	naintenance fees w pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Fee(s) Transmittal, Thi	is certif	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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CAMBRIDGE,	MA 02139								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/774,200	02/06/2004	•		Philip Orlik				MERL-1540	6995
TITLE OF INVENTION SIGNAL FORMATS	N: COORDINATING CO	OMMUNICATIO	ONS IN	A HETEROGENEOU	IS C	OMMUNICATIO!	NS NE	TWORK USING DIF	FERENT
APPLN. TYPE	SMALL ENTITY	ISSUE FEE I	UE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510		\$300		\$0		\$1810	06/23/2009
EXAM	IINER	ART UNI	Γ	CLASS-SUBCLASS					
YUN, E	UGENE	2618		370-329000					
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			tomer	registered attorney or agent) and the names of up to					
3. ASSIGNEE NAME A PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no a	ssignee	data will appear on th	ne pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will	not be p	rinted on the patent):	<u> </u>	Individual 🖵 Co	orporati	on or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta	itus (from status indicated as SMALL ENTITY statu	/	.27.	☐ b. Applicant is no	long	ger claiming SMAl	LL EN	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
• •	d Publication Fee (if req	uired) will not be	accepte	d from anyone other th					e assignee or other party in
Authorized Signature						Date			
Authorized Signature									
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 dapplication form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The ir U.S.C. 122 and USPTO. Time v rden, should be s O NOT SEND FE	nformation 37 CFR will vary ent to th ES OR	on is required to obtain 1.14. This collection is depending upon the i e Chief Information O COMPLETED FORM	or ros s esti ndiv ffice S TC	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. For Patents, P.O. Box 1450,

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201 BROADWAY 8TH FLOOR CAMBRIDGE, MA 02139		ART UNIT	PAPER NUMBER		
			2618 DATE MAILED: 03/23/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 955 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 955 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Al-d'PAH	10/774,200	ORLIK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	EUGENE YUN	2618	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course	
1. X This communication is responsive to <u>response filed 12/23/</u>	<u>2008</u> .		
2. ☑ The allowed claim(s) is/are <u>1-12</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		om the
International Bureau (PCT Rule 17.2(a)).	odinomo navo bodii roddiv	ou in this hadenar suge appression in	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give		or declaration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	-	ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			OT
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application	
 Notice of Preferences Gled (110-032) DNotice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	o./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner 9.	s Statement of Reasons for Allowance	е
Eugene Vuni	9. 🔲 Otilei	_	
/Eugene Yun/ Primary Examiner, Art Unit 2618			

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1. (Amended) A method for communicating data between terminals in heterogeneous communications network, comprising:

broadcasting periodically a first beacon in a first signal format, the first beacon defining a start of a contention period and a start of a contention free period, the contention free period for communicating data between the terminals; and

broadcasting a second beacon in a second signal format, which is different from the first signal format, during the contention free period, the second beacon defining the start of the contention period and the start of the contention free period.

10. (Amended) A heterogeneous communication network, comprising:

a first terminal communicating according to a first signal format; a second terminal communicating according to a second signal format; a coordinator configured to broadcast periodically a first beacon in the first signal format, the first beacon defining a start of a contention period and a start of a contention free period, and configured to broadcast a second beacon in the second signal format, which is different from the first

signal format, during the contention free period, the second beacon defining the start of the contention period and the start of the contention free period

Allowable Subject Matter

2. Claims 1-12 are allowed.

Regarding Claim 1, Choi does not teach broadcasting periodically a first beacon in a first signal format, the first beacon defining a start of a contention period and a start of a contention free period, the contention free period for communicating data between the terminals; and

broadcasting a second beacon in a second signal format, which is different from the first signal format, during the contention free period, the second beacon defining the start of the contention period and the start of the contention free period.

Claim 10 is allowable for similar reasons as claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUGENE YUN whose telephone number is (571)272-7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571)272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Yun Primary Examiner Art Unit 2618

/Eugene Yun/ Primary Examiner, Art Unit 2618 /E. Y./ Primary Examiner, Art Unit 2618